

## Full Depth Recycling

**October 31, 2006** (#1188)  
Spokane - 44 seats

**WSDOT Eastern Region Hdq., 2714 N. Mayfair St.**  
**Spokane, WA 99207 (509) 324-6000**

**November 1, 2006** (#1189)  
Richland - 40 seats

**City of Richland Maintenance Facility**  
**2700 Duportail, Bldg. 100**  
**Richland, WA 99352 (509) 942-7547**

**November 28, 2006** (#1190)  
Tumwater - 36 seats

**Washington State Materials Lab, 1655 S. 2nd Ave.**  
**Tumwater, WA 98512 (360) 709-5400**

**November 29, 2006** (#1191)  
Shoreline - 50 seats

**WSDOT NW Region Hdq., 15700 Dayton Ave. N.**  
**Shoreline, WA 98133 (206) 440-4000**

(The phone numbers above may be used in case of emergency to contact a student in the class.)

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**Cost: Free**

**Time: 9:00 am to 12:00 noon**

**Class Size: Varies**

**Instruction by: Northwest Cement Producers Group**

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### Target Audience

For construction professionals wishing to learn more about **recycling asphalt pavements**. This three-hour workshop should be of interest to local, state, and federal agencies, as well as consultants.

### Course Description

Deteriorating roads are a constant problem. That's why engineers and public works officials are turning to a process called full depth recycling with cement. The process rebuilds worn out pavements by recycling the existing roadway. Old asphalt and base materials are pulverized, mixed with cement and water, and compacted to produce a strong, durable stabilized base for either an asphalt or concrete surface.

This seminar will present state-of-the-art information on Full Depth Recycling (FDR) and Cement Recycled Asphalt Base Stabilizer (CRABS) that can be utilized to save time and natural resources in the rehabilitation and reconstruction of asphalt roads. Also included will be case studies of projects that illustrate why FDR is an excellent choice for rebuilding roads.

From specifications to step-by-step construction considerations, a wide range of topics regarding road reconstruction will be included in this program.



## Subjects to be addressed

- Soil Cement vs. CTB vs. CRAB, etc.
- Video: Building Better Roads
- Recycling Challenges
- Rehabilitating Existing Roads
- Base Course Stabilization
  - Selection of Stabilizer
  - Mix Design
  - Materials Analysis
  - Cost/Benefit Ratio
- Construction Considerations: Equipment and Process
- Quality Control and Specifications
- Cold Region Experience with FDR w/Cement

## Instructor

**Greg Halsted, P.E.** Mr. Halsted is a field engineer for the Portland Cement Association specializing in engineered soils which include soil cement, cement treated base, soil solidification, full depth recycling of flexible pavements, roller compacted concrete, and related applications for cement. He provides technical assistance to consulting engineers and public agencies throughout the country as a service of the Portland cement industry. He is a Registered Professional Engineer and worked previously for the state of Georgia Department of Transportation. An experienced soil cement contractor will also be present who can address constructability questions and equipment capabilities and limitations.

## Registration

Please register on-line using this link: [On-line Registration Form](#) Fill in your information, select your class from the list, then press "Submit." A registration notice with driving directions to the training site is e-mailed to you when we process your request. **If you do not receive this e-mail notification within a few days, you are not registered and should contact us.** Confirmation letters are mailed three weeks prior to the class. If you are unable to attend, someone else from your agency may attend in your place. To cancel your registration, or for assistance with registration, e-mail [wst2center@wsdot.wa.gov](mailto:wst2center@wsdot.wa.gov) or [schmidw@wsdot.wa.gov](mailto:schmidw@wsdot.wa.gov) or phone (360) 705-7386.

**Questions?** Contact Laurel Gray at (360) 705-7355 or [GrayL@wsdot.wa.gov](mailto:GrayL@wsdot.wa.gov)



Full-depth reclamation: old asphalt recycled with cement.  
Spokane County, WA

(Disability accommodations provided upon request.)

**Washington State Technology Transfer Center Web Page**

[www.wsdot.wa.gov/TA/T2Center/t2hp.htm](http://www.wsdot.wa.gov/TA/T2Center/t2hp.htm)



**Washington State  
Department of Transportation**